Chang Gung University International Program of Health Informatics and Management Course Map
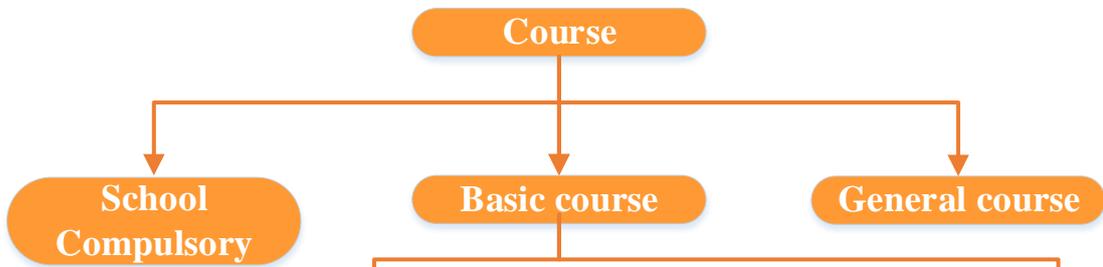
Course
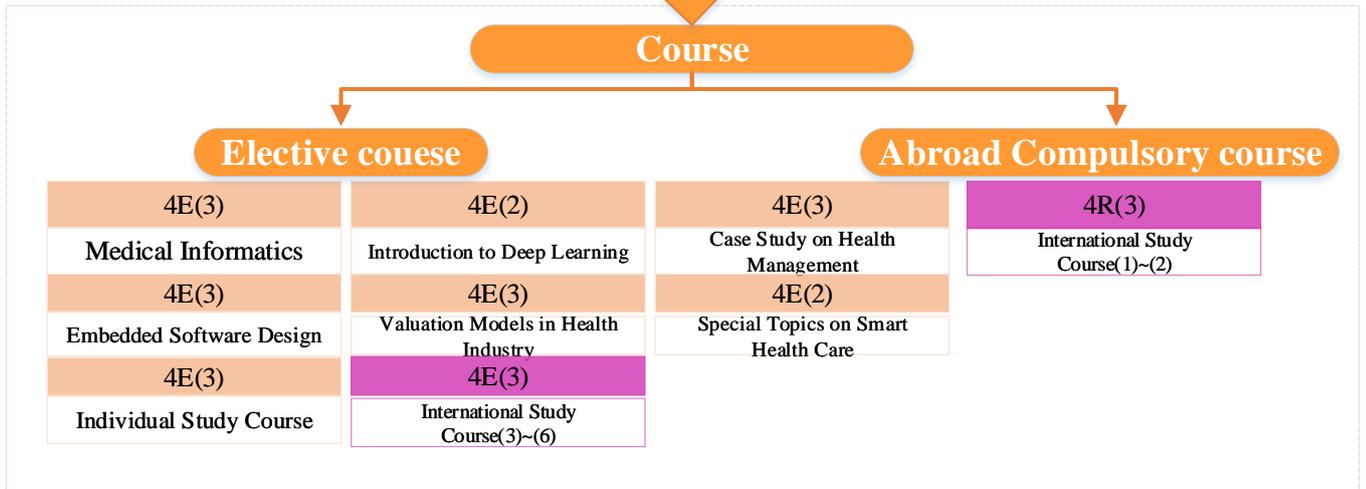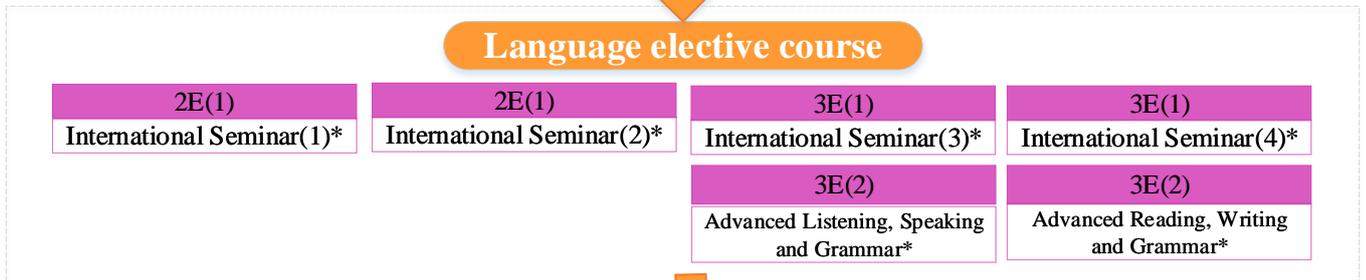
Grade(2~4)
R：Required
E：Elective
Credits

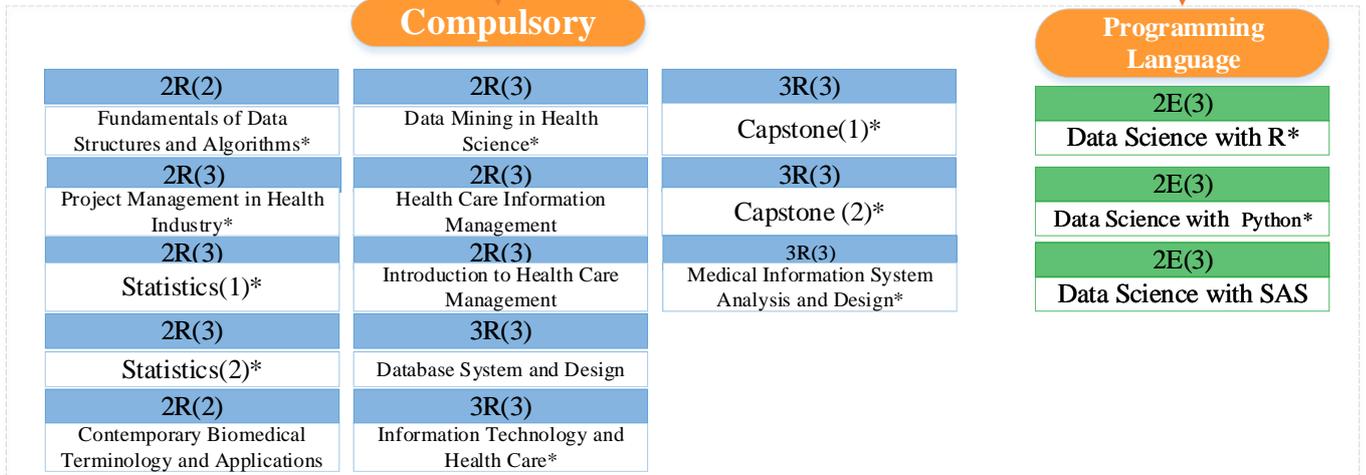| 2 | R | (3) |
Name

School Compulsory **Basic course** **General course**

Compulsory

2R(2) Fundamentals of Data Structures and Algorithms*	2R(3) Data Mining in Health Science*	3R(3) Capstone(1)*
2R(3) Project Management in Health Industry*	2R(3) Health Care Information Management	3R(3) Capstone (2)*
2R(3) Statistics(1)*	2R(3) Introduction to Health Care Management	3R(3) Medical Information System Analysis and Design*
2R(3) Statistics(2)*	3R(3) Database System and Design	
2R(2) Contemporary Biomedical Terminology and Applications	3R(3) Information Technology and Health Care*	

Programming Language

| 2E(3) Data Science with R* |
| 2E(3) Data Science with Python* |
| 2E(3) Data Science with SAS |

Professional elective course

2E(3) Pharmaceutical Logistics and Supply Chain*	2E(3) Quality Management in Health Care	3E(3) Customer Relationship Management and Business Intelligence*	3E(2) Health Laws
2E(3) Mobile APP Design*	3E(2) Fundamental Biomedical Methodology and Analysis	3E(3) Health Insurance Systems	3E(2) Longitudinal Data Analysis
2E(3) Management Science	3E(3) Medical Image Processing	3E(3) Decision Analysis	3E(2) Introduction to Medicien Design
3E(3) Independent Study(1)*	3E(2) Global Innovation and entrepreneurship with case studies and practices*		

Language elective course

| 2E(1) International Seminar(1)* | 2E(1) International Seminar(2)* | 3E(1) International Seminar(3)* | 3E(1) International Seminar(4)* |
| | | 3E(2) Advanced Listening, Speaking and Grammar* | 3E(2) Advanced Reading, Writing and Grammar* |

Course

Elective couese **Abroad Compulsory course**

4E(3) Medical Informatics	4E(2) Introduction to Deep Learning	4E(3) Case Study on Health Management	4R(3) International Study Course(1)~(2)
4E(3) Embedded Software Design	4E(3) Valuation Models in Health Industry	4E(2) Special Topics on Smart Health Care	
4E(3) Individual Study Course	4E(3) International Study Course(3)~(6)		

2nd & 3rd

4th

*Course in Inglish